

Polyaspartic Coatings

Industrial Uses for Concrete & Steel



Polyaspartic coatings are tough, durable polyurea coatings based on the reaction of amine-functional polyaspartic esters with polyisocyanates, and they are used in indoor/outdoor applications to protect concrete and steel. Applications include residential garages, warehouses, industrial/commercial spaces, bridges, roofs, light poles, and rail cars. TSE-EZASP™ polyaspartic resins are amine-functional resins for use with TSE-EZNATE® aliphatic polyisocyanates (or other polyisocyanate hardners). EZASP polyaspartic resins, mixed at a 1:1 ratio of EZNATE aliphatic polyisocyanate hardener, form a two-part system that can be easily applied with a roller, squeegee, or sprayer. The end product is a hard, clear, non-yellowing protective layer. Color chips can be added for extra grit and customization.

TSE-EZASP resins are available in several different cure speeds. Different resins can be blended to achieve custom curing characteristics and pot life requirements. Polyaspartic coating systems provide significant advantages over alternative systems, including faster cure times, increased durability, and excellent corrosion and abrasion resistance. Thicker layers mean fewer applications and increased productivity. Polyaspartic coatings can be used by themselves or in combination with polyurethane technology to create polyurea/polyurethane hybrids for customer-specific properties.



TSE-EZASP™ & TSE-EZNATE® Advantages

- High durability with excellent abrasion resistance
- Weather resistance, UV-stability, good chemical resistance
- Net Zero VOC
- Greatly reduce cure times for increased productivity, reduced cost
- Thick layers mean fewer applications. Jobs typically done in 1 day



Available Polyaspartic Products

Type	Name	Description
Resin	TSE-EZASP™ 7980 (versus Desmophen® NH 1220)*	Very fast-curing aspartic ester, medium viscosity
Resin	TSE-EZASP™ 7981 (versus Desmophen® NH 1420)*	Medium-curing aspartic ester, medium viscosity
Resin	TSE-EZASP™ 9033 (versus Desmophen® 1520)*	Slow-curing aspartic ester, low viscosity
Resin	TSE-EZASP™ 8443 (versus Desmophen® 2850 XP)*	Aspartic ester used to lower viscosity
Hardener/Curative	TSE-EZNATE® 1100 (versus Desmodur® 3600)*	Aliphatic polyisocyanate hardener

*Desmophen® and Desmodur® are federally registered trademarks of Covestro, LLC. TSE Industries, Inc. is not endorsed, sponsored by, or affiliated with Covestro.

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